

CORROSION RESISTANT MEMBER

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Abstract of JP9235685

PROBLEM TO BE SOLVED: To produce a member having high corrosion resistance to halogen base corrosive gases and plasma and used as inside wall materials, jigs and discharge tubes in a plasma treating device and a plasma device for producing semiconductors and liq. crystals.

SOLUTION: In a corrosion resistant member exposed to halogen base corrosive gases or the plasma thereof, at least the part in direct contact with the corrosive gases and plasma is composed of a member composed of metallic halide having the m.p. higher than the using temp. of the corrosion resistant member or of metal capable of forming metallic halide having the m.p. higher than the using temp. of the corrosion resistant member by the reaction between the gases and/or plasma or the compound thereof, and in which the content of metal such as Si, B, Mo, W or the like capable of forming metallic halide having the m.p. lower than the using temp. by the reaction between the corrosive gases and or plasma or the compound thereof is regulated to $\leq 1\text{wt.}\%$ expressed in terms of metal.

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